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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,992	07/11/2005	Victor P. Andreev	NU-597XX	2081
	590 01/12/2007 I, SCHURGIN, GAGNEE	IN & LEBOVICI LLP	NU-597XX 2081 EXAMINER BHAT, ADITYA S ART UNIT PAPER NUM 2863 DELIVERY MODE	INER
TEN POST OFF	FICE SQUARE		BHAT, Al	DITYA S
BOSTON, MA	02109		ART UNIT PAPER NUMBER	
			2863	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	ITHS	01/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	e
	10/510,992	ANDREEV ET AL.	
Office Action Summary	Examiner	Art Unit	
	Aditya S. Bhat	2863	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence addres	S
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. mely filed the mailing date of this communication (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) filed on 11 J This action is FINAL. 2b) This Since this application is in condition for alloware closed in accordance with the practice under the 	s action is non-final. nce except for formal matters, pre		rits is
Disposition of Claims			
4) ☐ Claim(s) 1-32 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 30 is/are allowed. 6) ☐ Claim(s) 1-29 is/are rejected. 7) ☐ Claim(s) 31 and 32 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 12 October 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11 ☐ The oath or declaration is objected to by the Examine 11 ☐ The oath or declaration is objected to by the Examine 11 ☐ The oath or declaration is objected to by the Examine 12 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 14 ☐ The oath or declaration is objected to by the Examine 14 ☐ The oath or declaration is objected to by the Examine 14 ☐ The oath or declaration is objected to by the Examine 14 ☐ The oath or declaration is objected to by the Examine 14 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oat	wn from consideration. or election requirement. er. a: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. Settion is required if the drawing(s) is objected.	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.	
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat ority documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stag	ge
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/18/05.	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	oate	

DETAILED ACTION

Claim Objections

1. Claims 31-32 are objected to because of the following informalities: Claim 31-32 are method claims that depend on a apparatus claim. Appropriate correction is required.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-29 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims are directed to a judicial exception; as such, pursuant to the Interim Guidelines on Patent Eligible Subject Matter (MPEP 2106)), the claims must have either physical transformation and/or a useful, concrete and tangible result. The claims fail to include transformation from one physical state to another. Although, the claims appear useful and concrete, there does not appear to be a tangible result claimed. Merely analyzing would not appear to be sufficient to constitute a tangible result, since the outcome of the analyzing step has not been used in a disclosed practical application nor made available in such a manner that its usefulness in a disclosed practical application can be realized. As such, the subject matter of the claims is not patent eligible.

Allowable Subject Matter

3. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 30:

The primary reason for the allowance of claim 1 is the inclusion of: generate a second multi-dimensional data set with reduced noise based on the noise-reduced representations, the second data set being representable by a second data array including a compound separation dimension and a compound characteristics dimension. It is this feature found in the claim, as it is claimed in the combination that has not been found, taught or suggested by the prior art of record, which makes this claim allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Voorhees et al. (USPN 5,862,512) teaches a method and apparatus for geochemical survey data, Hastings (USPUB 2002/0063208) teaches median filter for liquid chromatography-mass spectrometry data, Hastings (USPN7 6,873,915) teaches peak selection in multidimensional data, Bertrand et al (USPN 6,449,584) teaches a measurement signal processing method and Le Cocq et al.

Application/Control Number: 10/510,992 Page 4

Art Unit: 2863

(USPUB 2006/0036425) teaches system and methods and visualizing multi-dimensional biological data.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aditya S. Bhat whose telephone number is 571-272-2270. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aditya Bhat January 4, 2007

JOHN É. BARLOW JR. PRIMARY EXAMINER